NOAA FISHERIES

Northwest Fisheries Science Center

2013 Program Review: Magnuson-Stevens Data

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NOAA Fisheries Program Reviews
The simplest form of the ToR

Are we doing good science?

Are we doing the right science?

Why Program Reviews, Why Now?

- Beginning in Jan 2013, NOAA Fisheries is conducting a systematic review of fisheries programs

- Peer reviews ensure delivery of high quality, trusted, timely science supporting sustainable and profitable U.S. fisheries industries and healthy domestic seafood

Scope of Review

Fisheries data used in MSA stock assessments:

- NOAA ship-based surveys
- Cooperative research surveys
- Logbook and observer data
- Data management and quality control

Overarching Questions for Reviewers

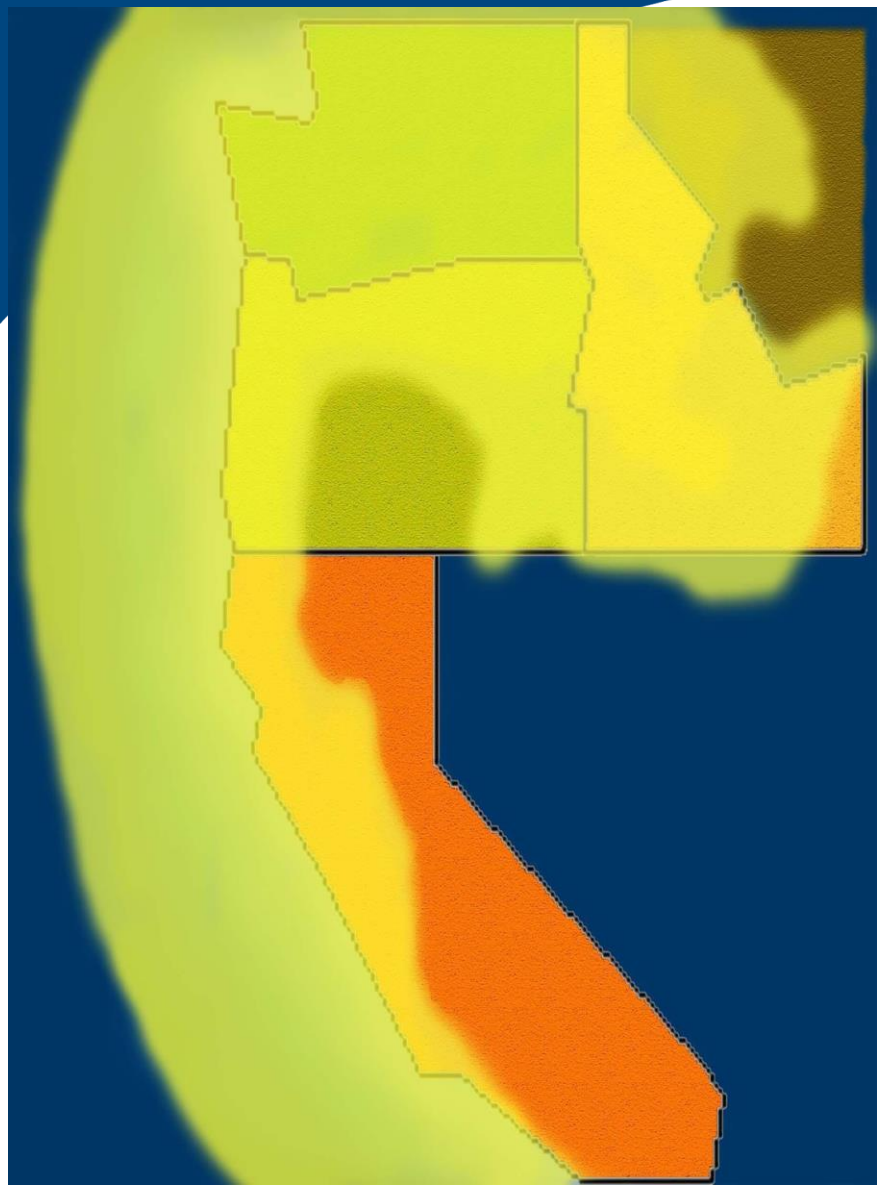
- **Relationship** of current and planned fishery assessment data activities to Center fishery assessments mandates and requirements – is the Center doing the right things?
- **Opportunities –** are there opportunities that the Center should be pursuing in collecting and compiling fishery assessment data, including shared approaches with partners?
- **Scientific/technical approach –** are the Center's fishery data objectives adequate, and is the Center using the best suite of techniques and approaches to meet those objectives?
- **Organization and priorities –** is the Center's fishery data system properly organized to meet its mandates and is the allocation of resources among program appropriate?
- **Scientific approach –** are the Center's fishery data programs being conducted properly (survey design, standardization, integrity, peer review, transparency, confidentiality, PII, etc.)?

Reviewers' Tasks

Reviewers should address (from Terms of Reference):

- Quality and timeliness of the data
- Statistical precision
- Identify successes and way to support
- Identify limitations/weaknesses and ways to resolve
- Recommendations for prioritizing improvements
- Comments on data accessibility

Key marine resources and geographic range



Geographic range of our work

West Coast Groundfish

Pacific Salmon

Southern Resident Killer Whales

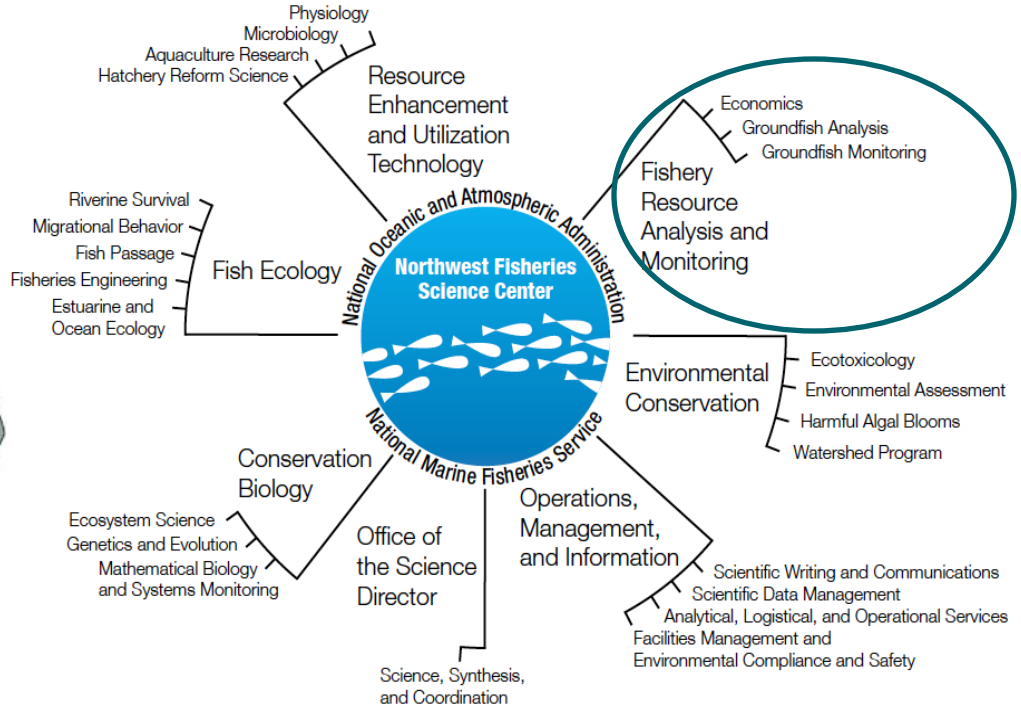
Sustainable, Safe & Secure Seafood for Healthy Populations & Vibrant Communities

Ecosystem Approach to Improve Management of Marine Resources

Recovery & Rebuilding of Marine & Coastal Species

Habitats to Support Sustainable Fisheries & Recovered Populations

Where we are located and who we are



By the Numbers

- Staff: Approximately 450 (Federal and contractors) in 6 locations

- FY13 Funding:
  - $53M NOAA
  - $20M reimbursables

NWFSC Groundfish Science Budget

Project	Recent Costs
Hake Survey	**$1.4M**
Stock Assessment	**$2.1M**
Groundfish Survey	**$2.7M**
Observer Program	**$4.3M**
Hook and Line Survey	**$0.4M**
Science Budget	**$10.9M**

NWFSC's Strategic Planning

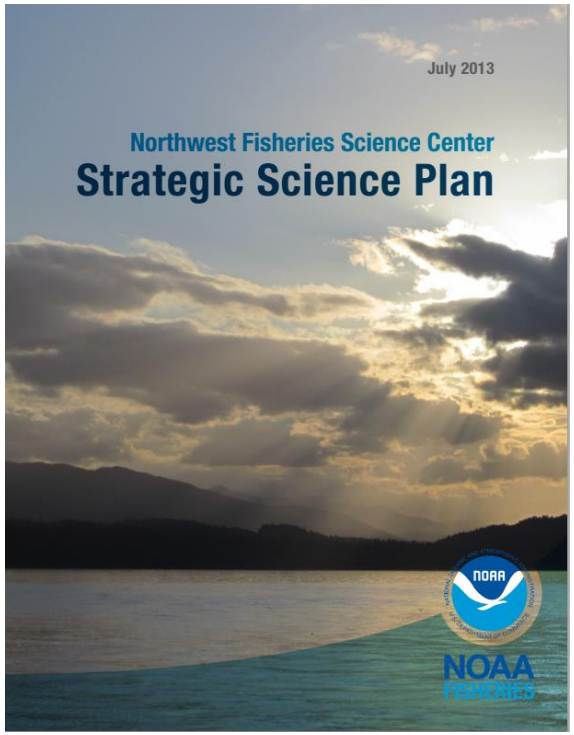
2007: First Strategic Science Plan

2013: Revised Strategic Science Plan

2013: 1st annual guidance memo

2014: 2nd annual guidance memo

Planning documents support priorities laid out in the NMFS and NOAA Strategic Plans



NWFSC Director's Guidance for FY14

- Two Focus Areas
  - California Current Ecosystem Monitoring
    - Balancing surveys and process studies
  - Habitat Science
    - Salmon recovery needs

NWFSC Director's Guidance for FY14

- Seven key funding priorities:
  1. Fully staff high priority west coast surveys
  2. Conduct groundfish and hake stock assessments for PFMC
  3. Complete required observer monitoring and develop electronic monitoring program
  4. Provide science supporting important salmon BiOps
  5. Provide science to support national pesticide BiOp
  6. Provide science to support recovery of listed species
  7. Fund FY14 aquaculture priorities

Setting Priorities

- Strategic Plan provides foundation
- Mandates drive our process
- Implementation Process:
  - Online Project Database
  - Project rankings
  - Criteria
    - ✓Science need (max 30)
    - ✓Management need (max 30
    - ✓Scalable (max 10)
    - ✓Maintain competency (max 20)

Note: This is an evolving process.

Coordination with SWFSC

- One West Coast Regional Office
- Assigned responsibilities for science centers
  - NWC – Groundfish
  - SWC – Coastal Pelagic Species (CPS) and HMS
  - Joint – salmon
- Joint survey and other data collection

Management and Science for WC Groundfish

- **West Coast Regional Office**
  - Science and data for regulations
- **Pacific States Marine Fish Commission (PSMFC)**
  - Coordinate on fisheries dependent data
- **Pacific Fishery Management Council (PMFC)**
  - Industry, NGOs, States, others represented
  - Coordinate to set stock assessment priorities
  - Identify gaps and research needs

NOAA Fisheries Service

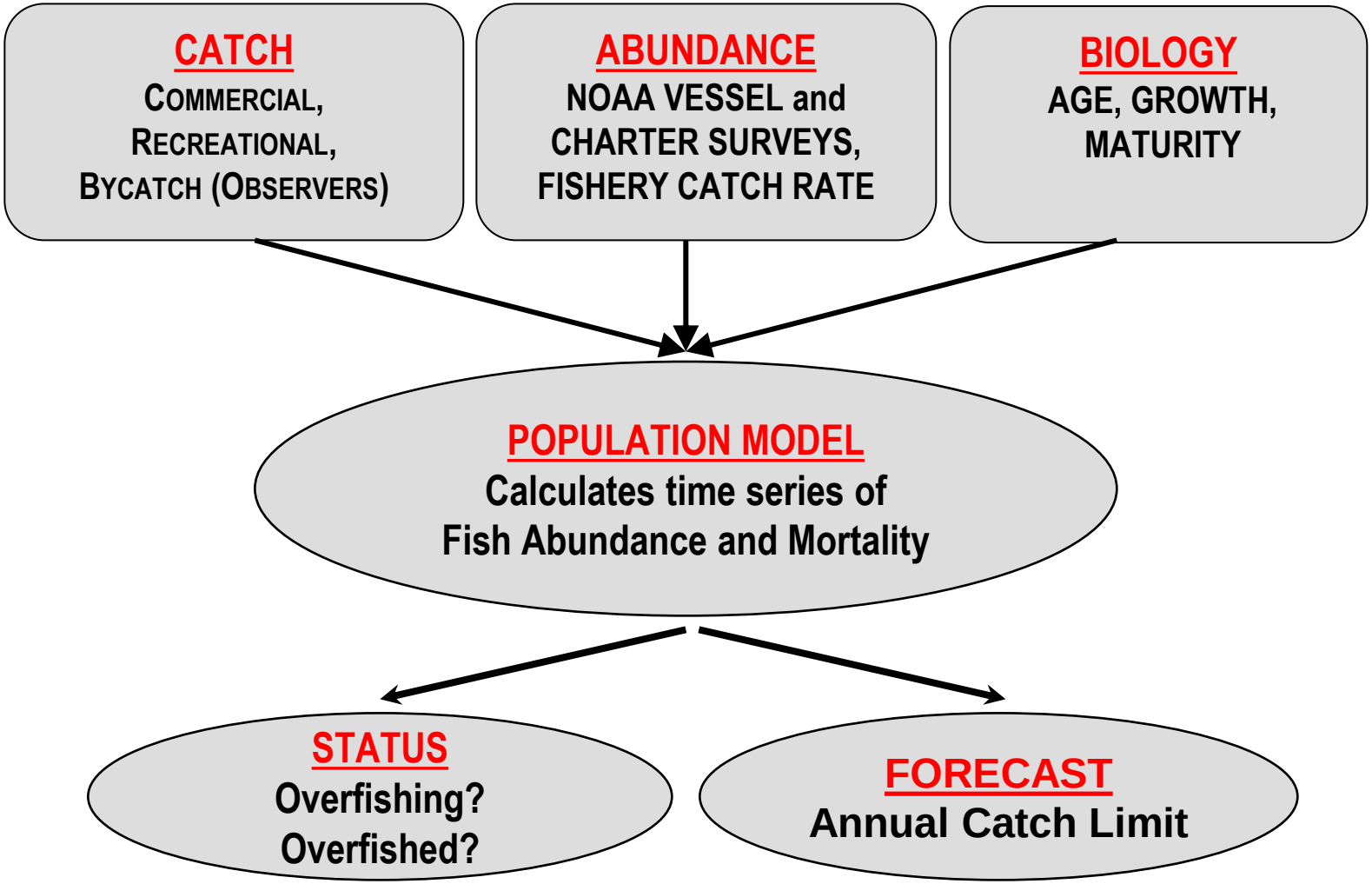
Shoreside Value (2012 official estimates)

Port	Income ($1000)	Jobs
Puget Sound	2,376	56
Washington Coast	14,595	310
Astoria-Tillamook	26,899	450
Newport	12,653	362
Coos Bay- Brookings	11,400	504
Crescent City - Eureka	6,523	254
Fort Bragg – Bodega Bay	4,750	198
San Francisco Area	1,720	98
SC – Mo -MB	6,223	457
SB – LA - SB	3,289	339
Coastwide Total	**90,429**	**3,028**

At-Sea Fishery Value (2011)

At-Sea Sector	Purchase Value	Production Value	Jobs
Motherships	$8.6M	$30.7M	618
Catcher Processors	NA	$59.4M	1,035
Total	NA	$90.1M	1,653

Data Inputs to Stock Assessments



90+ FMP Species

West Coast Groundfish Survey

NOAA FISHERIES

Fishery Data Flows

Fishery Dependent Data

Commercial Landings Data (WA, OR, CA)

Recreational Landings Data (WA, OR, CA)

Pacific States Marine Fisheries Commission (PacFIN, RecFIN)

Age-length Compositions

Observer Data (WCGOP, ASHOP)

Total Fishing Mortality Estimates / Discard Rates

Fishery Independent Data

Shelf-Slope Bottom Trawl Survey Data (FRS)

Data from Other Current Surveys (NWFSC, SWFSC)

Data from Prior Trawl Surveys (NWFSC, AFSC)

Hake Acoustic & Mid-water Trawl Data (FEAT)

Age, Length, Maturity & Life History Estimates

Groundfish Biomass Estimates & Compositions

Assessments

Hake Biomass Estimates & Compositions


Questions?